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Synopsis of Hqs. Support Systems Adequacy to Meet Increased RequirementsElectric Power:

NPIC/EOI Requirements: Average demand = 9,500 KW
Total demand = 15,500 KW
Emergency demand = 12,400 KW

Commercial power supplies are capable of meeting the demand with VEPCO modification to the substation. In case commercial sources fail, on-site emergency generation will be required. Existing emergency generators will not be able to meet both the demands of Headquarters Building and projected NPIC/EOI emergency requirements. Reordering of priorities and an increase in emergency power generation will be necessary.

Water Supply:

NPIC/EOI Requirements: process water = 1,156,000 gals per day
domestic water = 249,000 gals per day

The water main supplying Headquarters site is adequate to meet additional project requirements; however, no determination of the willingness of the water supplier to sell this quantity of water has been made. In case of a main supply line stoppage, the existing water tank could supply projected demands for about four hours. An additional water storage tank and distribution main will be required to meet water consumption and fire protection demands.

Reclamation of process water for reuse would decrease water system demands. A detailed study of feasibility and possible savings should be conducted.

Sanitary Sewerage:

NPIC/EOI Requirements: process water = 1,156,000 gals per day
domestic water = 249,000 gals per day

Increased waste water loads will necessitate augmentation of capacity in the pumping station and the laying of another force-main sewer from the pumps to Route 123 along Savile Lane.

Steam:

NPIC/EOI Requirements: 13.1 million BTU/hour heating only
25,000 lbs/hour process water + heat

Three existing boilers in the power house can service the combined Headquarters and project steam heat and process water requirements with one boiler in reserve.

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25X1A If the existing steam absorption air conditioning equipment is moved from the to Langley to serve the new project, a fourth boiler would be desirable to increase reserve capability.

Air Conditioning:

NPIC/EOI Requirements: 2,150 tons/hour max demand

By spring of 1973 installed capacity at Headquarters power plant will be able to satisfy the combined existing Headquarters and project demands with an approximate 1,000 ton margin for future needs under normal operating conditions.

During an electrical power emergency the emergency generators will be able to sustain only 1/8 of the A/C chilling capacity. Augmentation of this system with the NPIC steam absorption system should be considered, particularly for emergency use.

Waste Disposal:

NPIC/EOI Requirements: classified = 4,560 lbs/day
unclassified = 12.0 cu yds/day

The potential capacity of existing trash destructors at Headquarters could absorb the extra load imposed by the new project if the somat conveyors were increased in size to match bowl capacities, and if the predestruction trash storage areas were increased commensurately with the increased load.

In light of the national concern about pollution, renovation of the incinerators to decrease emissions should be studied. Disposal of somat residue is also a problem that is not satisfactorily handled now and will become increasingly difficult to handle.

Cafeteria - Food Service:

25X1A NPIC/EOI Requirements: lunches for max shift condition

Potential capacity of the Headquarters kitchen and cafeteria can serve the new project demands at noon lunch without strain assuming that present ratios of "non-cafeteria eaters" remain constant among the Headquarters and NPIC populations.

Evening and midnight shift work populations will increase greatly over the present Headquarters situation.

Extended evening and night cafeteria service should be considered jointly with the cafeteria management to serve this new requirement.

Telephone Service:

- Black Lines - Additional space in the telephone center for expansion of trunk line service by the phone company will be required, and telephone equipment space will be required in the new facility.
- Red Lines - Present red system in Headquarters Building is at near capacity, such service in new facilities along with a connection to Headquarters Building must be constructed.
- Grey/Green Lines - This system must be built into new facilities, existing switch and terminal to be relocated from present facility.
- Data Link - Present capability will not support the new requirements. Additional high-speed data links are in critical supply.
- Teletype/Facsimile - Additional space will be required to accommodate any increase in required equipment and lines to be installed by the phone company.